

# o-Methoxybenzoic acid, pentadecyl ester

<b>Inchi:</b>	InChI=1S/C23H38O3/c1-3-4-5-6-7-8-9-10-11-12-13-14-17-20-26-23(24)21-18-15-16-19-2
<b>InchiKey:</b>	AUOBCIUIXSCCDL-UHFFFAOYSA-N
<b>Formula:</b>	C23H38O3
<b>SMILES:</b>	CCCCCCCCCCCCCOC(=O)c1ccccc1OC
<b>Mol. weight [g/mol]:</b>	362.55

## Physical Properties

Property code	Value	Unit	Source
gf	-93.36	kJ/mol	Joback Method
hf	-670.01	kJ/mol	Joback Method
hfus	52.95	kJ/mol	Joback Method
hvap	81.30	kJ/mol	Joback Method
log10ws	-7.69		Crippen Method
logp	6.943		Crippen Method
mcvol	324.480	ml/mol	McGowan Method
pc	1053.46	kPa	Joback Method
rinsol	2663.10		NIST Webbook
tb	856.01	K	Joback Method
tc	1052.14	K	Joback Method
tf	482.30	K	Joback Method
vc	1.258	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1037.63	J/molxK	856.01	Joback Method
cpg	1056.16	J/molxK	888.70	Joback Method
cpg	1073.48	J/molxK	921.39	Joback Method
cpg	1089.63	J/molxK	954.07	Joback Method
cpg	1104.62	J/molxK	986.76	Joback Method
cpg	1118.50	J/molxK	1019.45	Joback Method
cpg	1131.29	J/molxK	1052.14	Joback Method
dvisc	0.0005394	Paxs	482.30	Joback Method
dvisc	0.0002681	Paxs	544.59	Joback Method

dvisc	0.0001538	Paxs	606.87	Joback Method
dvisc	0.0000978	Paxs	669.15	Joback Method
dvisc	0.0000672	Paxs	731.44	Joback Method
dvisc	0.0000490	Paxs	793.72	Joback Method
dvisc	0.0000374	Paxs	856.01	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U292304&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U292304&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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